

FY94-0443

REMOVAL REPORT  
FOR  
TRI CONTAINER  
TULSA, ROGERS CO., OK  
SITE ID# 7S

October 20, 1995

Prepared for:

J. Chris Petersen  
Deputy Project Officer  
Response and Prevention Branch  
EPA - REGION 6

Contract Number: 68-WO-0037



**ecology and environment, inc.**

International Specialists in the Environment

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FY94-0443

Date: October 20, 1995

To: John Martin, OSC  
EPA Region 6, Response and Prevention Branch

Thru: J. Chris Petersen, DPO  
EPA Region 6, Response and Prevention Branch

Thru: Chris Quina, TATL  
Region 6, Technical Assistance Team

From: Richard Neeley  
Region 6, Technical Assistance Team

Subj: Removal Report: TRI Container  
Tulsa, Rogers Co., OK  
TDD# : T06-9510-050  
PAN : EOK0419FC  
SSID#: 7S  
Longitude: 95° 47' 30" N  
Latitude: 36° 11' 20" W

Attached is a copy of the draft On-Scene Coordinator's Report (DOSCR) for the TRI Container site in Tulsa, Rogers County, Oklahoma. The latitude and longitude coordinates were obtained from the U.S.G.S. 7.5 minute Topographic Map, Mingo quadrangle.

ATTACHMENTS:

**OSC FILE ATTACHMENTS**

- A. Draft On-Scene Coordinator's Report (DOSCR)
- B. Disk Copy of DOSCR (OSC file only)
- C. Federal Records Center Transmittal & Receipt List (FRCTR).
- D. Environmental Justice Report (1 & 50 mile radius)
- E. Copy of TDD No. T06-9410-120 and Amendments A, B, C, and D., and TDD No. T06-9510-050.

**EPA FILE ATTACHMENTS**

- A. Draft On-Scene Coordinator's Report (DOSCR)
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**Site File** - 3 boxes, see FRCTR list

**TAT FILE ATTACHMENTS (TAT FILE ONLY)**

- A. Draft On-Scene Coordinator's Report (DOSCR)
- B. Federal Records center Transmittal & Receipt List (FRCTR)
- C. Site Location Map
- D. Site Sketch
- E. Copy of Logbooks
- F. Copies of Photographs
- G. Negatives
- H. Record of Communications
- I. POLREPS
- J. Environmental Justice Report (1 & 50 mile radius)
- K. Copy of TDD No. T06-9410-120 and Amendments A, B, C, and D., and TDD No. T06-9510-050.

**ATTACHMENT A**

**DRAFT FEDERAL ON-SCENE COORDINATOR'S REPORT**

TRI Container  
Tulsa, Rogers County, Oklahoma

November 28, 1994 to October 20, 1995

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

## **I. SUMMARY OF EVENTS**

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### **A. Site Conditions and Background**

TRI Container (formerly Tulsa Recon) is located in Tulsa, Rogers Co., Oklahoma. The site occupies approximately five acres in Sec. 26, T20N, R14E at 17400 East Young Street. TRI Container operated as a drum manufacturing and a refurbishing facility for 18 years. It was abandoned approximately two and a half years prior to the date of this report. The property contains a large warehouse divided into a north and south bay, two sheds, a large unlined waste water pond, ten storage tanks which contain 44,000 gallons of waste oil, a large vat of sludge waste, nearly 2,000 drums with contents, and an estimated 12,000 empty drums.

#### **1. Initial Situation**

On November 6, 1993, vandals entered the TRI Container site and released an estimated 400 gallons of waste oil from an above-ground storage tank. Local and state officials responded to the scene, and a local cleanup contractor removed and stockpiled the contaminated soil on-site. State and local officials requested the EPA's assistance to evaluate the spill and the large quantity of drums stored at the site. The waste oil release and the stored drums drew considerable media attention.

On November 8, 1993, the Region 6 Technical Assistance Team (TAT) visited the site and observed several drums labeled "corrosive" and "flammable", ten storage tanks with oily contents, several openings in the site perimeter fence, and evidence the site is frequented by trespassers. Some drums were found leaking substances onto the ground. During the week of November 15, 1993, the OSC and the TAT visited the site to collect samples and post warning signs.

Sample results from a preliminary site assessment performed by the TAT indicated the presence of RCRA characteristic hazardous wastes and CERCLA hazardous substances. Hazard classes included acidic liquids (pH < 2), basic liquids (pH > 12.5), and flammable liquids/solids (flashpoint < 60° C). One of the warehouse areas had incompatible hazard classes stored together which if mixed could result in a fire and/or explosion. A large vat full of sludge and liquid was sampled. Test results showed the vat liquid (pH = 1.9) to be a characteristic acid waste.

On October 3, 1994, the TAT was tasked to respond to the site by the EPA emergency Response Branch (ERB) to provide technical assistance for sampling, analysis, and air monitoring. The TAT would maintain site files, and provide written and photographic documentation.

#### **2. Location of hazardous substances**

Hazardous substances were located in drums and other containers within warehouse bays, in storage tanks, in drums staged at the

southern end of the site which served as a drum storage area, the waste water pond, and the drum wash shed area which contained drums and a large vat of sludge.

### 3. Cause of the release or discharge

To be completed by the OSC

### 4. Efforts to obtain response by responsible parties

To be completed by the OSC

## B. Organization of the Response

AGENCIES/PARTIES INVOLVED	CONTACT	SUMMARY OF ACTIONS TAKEN
USEPA/ERB	John Martin On-Scene Coordinator	Responsible for overall removal oversight
TAT (Technical Assistance Team), Ecology & Environment, Inc.	Rick Neeley Project Manager	Provided OSC with technical, personnel and administrative support, and site documentation
ERCS (Emergency Response Contracting Services), Riedel Environmental Services, Inc.	LeRoy Cassidey Response Manager	Provided personnel necessary for site activities; collected subcontractor bids, arranged disposal

## C. Injury/Possible Injury to Natural Resources

To be completed by the OSC

## D. Chronological Narrative of Response Actions

On November 28, 1994, the EPA-OSC, TAT, and ERCS mobilized to the site to begin cleanup activities. Site preparatory activities began on November 29, 1994 to establish a command post and included visits by utility vendors, cleaning up the warehouse, clearing brush and trash from the site, and receiving equipment from vendors. The local media visited the site to conduct interviews with the OSC regarding the removal action.

December 1, 1994 through December 4, 1994, the TAT and OSC divided the site into seven areas for inventory purposes. (1) East yard, (2) south bay warehouse, (3) north bay warehouse, (4) cement slab, (5) drum wash shed, (6) north yard, and (7) south yard. The TAT provided the ERCS contractor with technical support for DRUMTRAK, a computer database program provided by the EPA-ERT to inventory drums. The ERCS crews began the inventory and staging of drums in

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the south bay warehouse where incompatible materials were stored in close proximity. Inventory information was collected on a log sheet for each drum and transferred to DRUMTRAK to record drum size and type, volume of contents and layer(s) information, and label and marking information. A sample was collected for hazard categorization to determine waste stream grouping. Empty drums were counted but not included in the inventory. Deteriorated drums and containers were overpacked. Drums were placed on pallets and staged in the south bay. Drum inventory, overpacking, and staging activities began in the north bay on December 4, 1994. Other activities included clearing empty drums from the south yard near the warehouse.

**December 5, 1994 through December 11, 1994**, the ERCS continued to sort drums in the south yard, inventory, overpack, and palletize drums with contents from the south yard. Drums for hazard categorization were staged in the north bay warehouse. Other activity included adding rings and bolts to drum tops, and building tables and preparing an area for hazard categorization of drum samples. The TAT provided photographic documentation of drum markings and labels, conducted air monitoring, maintained QA/QC of drum inventory log sheets with drums, and entered data into DRUMTRAK. By December 11, 1994, 513 drums had been inventoried.

**December 12, 1994 through December 21, 1994**, the ERCS continued to sort drums in the south yard, inventory, overpack, collect samples, palletize, and stage drums with contents. Hazard categorization was conducted on drum samples and drums were staged into their respective hazard class. The TAT and ERCS entered drum inventory data into DRUMTRAK. The OSC, TAT and ERCS demobilized from the site for the holidays. 656 drums had been inventoried to date.

**On January 3, 1995**, the OSC, TAT, and ERCS mobilized to the site to continue removal activities. **January 4, 1995 through January 16, 1995**, the ERCS continued to sort drums in the south yard, inventory, overpack, collect samples, palletize, and stage drums with contents. The TAT and ERCS entered drum inventory data into DRUMTRAK. Disposal company representatives visited the site to discuss disposal and remedial options.

**January 17, 1995 through January 29, 1995**, the ERCS continued to sort drums in the south yard, inventory, overpack, collect samples, palletize, and stage drums with contents. Hazard categorization was conducted on drum samples and drums were staged into their respective hazard class. The ERCS performed compatibility tests to combine drum samples for bulking of drum contents. The ERCS collected samples from the storage tanks, vat, and waste water pond, and tank and vat measurements were collected to determine the volume of wastes. Compatibility tests were conducted on the tank and vat samples. Combined samples from compatibility tests were sent for laboratory analysis.

**January 30, 1995 through February 5, 1995**, the ERCS continued to sort drums in the south yard, inventory, overpack, collect samples,



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palletize, and stage drums with contents. Hazard categorization was conducted on drum samples and drums were staged into their respective hazard class. The ERCS collected an additional sample from tank T-3 and the waste water pond for laboratory analysis. 1332 drums have undergone hazard categorization to date.

**February 6, 1995 through February 12, 1995,** the ERCS continued to sort drums in the south yard, inventory, overpack, collect samples, palletize, and stage drums with contents. Hazard categorization was conducted on drum samples and drums were staged into their respective hazard class. The ERCS prepared five samples from hazard classes TC-013 (flammable resins), TC-014 (flammable paint solids), TC-016 (neutral paint chips/ash), TC-017 (soil in drums), and TC-015 (non-specific flammable liquids) for laboratory analysis. A representative from Waste Management visited the site to discuss disposal of RCRA empty drums. The TAT and ERCS continued to enter drum inventory and hazard categorization data into DRUMTRAK.

**February 13, 1995 through February 26, 1995,** the ERCS continued to sort drums in the south yard, inventory, overpack, palletize, and stage drums into their respective hazard classes. Drums that could not be sampled were de-headed for sample collection. The ERCS collected a sludge sample from the waste water pond. Sample results from the tank product, waste water pond, vat, N.O.S. water, paint chips/ash, resins, paint solids, soil in drums, and non-specific flammable liquids were received from the analytical lab. The ERCS steam cleaned equipment and PPE. Drums containing waste/product greater than two inches in depth were bulked. Empty drums were staged in the south yard for crushing. Trees and brush were removed to facilitate drum sorting in the south yard.

**February 27, 1995 through March 12, 1995,** the ERCS continued to sort drums in the south yard, inventory, overpack, collect samples, palletize, and stage drums with contents. Hazard categorization was conducted on drum samples and drums were staged into their respective hazard class. Drums containing waste/product greater than two inches in depth were bulked. Empty drums were staged in the south yard for crushing. Eighty-eight drums in the flammable hazard class were prepared for transportation and disposal. A total of 1509 drums had been entered into DRUMTRAK to date.

**March 13, 1995 through March 26, 1995,** the ERCS continued to sort drums in the south yard, overpack, collect samples, palletize, and stage drums with contents. Drums containing waste/product greater than two inches in depth were bulked. Empty drums were staged in the south yard for crushing. The TAT collected 14 soil samples in the north and south yard areas to delineate the extent of contamination under site assessment TDD No. T06-9503-004. The ERCS prepared drums in the flammable class for transportation and disposal which began on March 20, 1995. Eighty-eight 55-gallon and three 85-gallon drums were transported off-site to a disposal facility. Approval for off-site disposal of CERCLA wastes into a local landfill was granted by EPA-RCRA, and 150 crushed empty drums were transported to the landfill on March 22, 1995.

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**March 27, 1995, through April 16, 1995,** The ERCS sorted drums in the south yard, staged and labeled drums for transportation and disposal, and consolidated drums containing waste/product greater than two inches in depth. Five truck loads of drums were transported off-site for disposal. The waste groups were as follows: Load 1 - 92 drums of TC-001 (flammable paint sludge); load 2 - 81 drums of TC-001 and TC-002 (flammable sludge/liquid); loads 3 and 4 - 68 and 86 drums respectively of waste groups TC-012 (flammable paint chips/ash), TC-014 (flammable solids), TC-017 (soil in drums), TC-018 (neutral sludge), TC-019 (oils), TC-021 (drilling muds); load 5 - 40 drums of TC-003, TC-004, TC-006, TC-006 (acids). Other activities included loading non-hazardous trash/debris in roll-off containers for off-site disposal, sort and stage drums in waste group TC-011 (neutrals) that contained water and decant the water into the waste water pond, and crush and load drums/debris into trailers as scrap metal for transportation off-site.

**April 17, 1995, through May 8, 1995,** The ERCS sorted drums in the south yard, staged and labeled drums for transportation and disposal, and consolidated drum contents in waste groups TC-012, TC-014, TC-017, TC-018, TC-019, and TC-021 for transportation and disposal by H.E.A.T. Fifty-four drums were de-headed to collect a sample for hazard categorization. Two truck loads of drums were transported off-site by H.E.A.T., and one truck load of drums was transported off-site by Laidlaw. The ERCS sorted and staged the base drum class into a group below pH 12.5 and a group above pH 12.5. A small amount of tank contents and vat sludge were solidified on-site utilizing kiln dust provided by a local cement manufacturer. The ERCS used backhoes to crush and load empty drums into roll-off containers for transportation and disposal by Waste Management. The ERCS decontaminated and returned rental equipment and prepared the site for demobilization. On May 8, 1995, the OSC, TAT, and ERCS demobilized from the site.

As of May 8, 1995, a total of 7,860 RCRA empty drums were crushed and transported off-site for disposal in a local RCRA approved landfill. Approximately 12,000 drums required handling with approximately 2,000 drums having contents. Twenty-six waste streams were identified and 147 drums of paint-liquid, 248 drums of paint-sludge, 158 drums of paint-solid, and 40 drums of acids transported off-site for disposal. Site crews were demobilized to allow the TAT to conduct an extent of surface contamination survey under TDD No. T06-9503-004 and for the OSC to request additional funding to complete the removal action. Additional funding was necessary due to the greater number of drums on-site than originally estimated and the increased disposal costs.

**On July 24, 1995,** the EPA-OSC, TAT, and ERCS mobilized to the site to begin the second phase of removal activities. During the period between July 24, 1995, and July 30, 1995, the ERCS utilized a vacuum truck to remove liquid waste from the storage tanks and a total of 8,700 gallons of waste liquid was transported off-site to an approved disposal facility. Other activities included

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overpacking drums and transportation and disposal of fifty-three 55-gallon drums (2,915 gallons) of waste paint related material, and fifty-eight 55-gallon drums (3,500 gallons) of waste flammable, solids, n.o.s related material. The ERCS began excavating contaminated surface soils, and the TAT collected 5 confirmation soil samples from the excavated areas.

**July 31, 1995, through August 6, 1995,** the ERCS removed residual non-hazardous drum liquids, crushed RCRA empty drums, and made arrangements for transportation and disposal. The ERCS stockpiled heavy metals contaminated soil in the south yard and determined a waste profile for disposal. The ERCS cut holes in all tanks to render them inoperable so they may remain on-site. The TAT conducted air monitoring during tank cutting activities with no readings above background levels detected. The ERCS removed the sludge from tanks and loaded it into trailers for transportation and disposal at a TSD facility. The ERCS conducted a stabilization study by mixing soil, sand, and tank sludge with non-hazardous residual drum liquids and stockpiled the various mixtures on-site. Samples were collected from the various mixtures for laboratory analysis of TCLP. Sample results passed TCLP for barium, chromium, and lead. The ERCS loaded drums containing paint chips/ash into trucks for transportation and disposal, and 512 non-hazardous drums were crushed and loaded into trucks for transportation and disposal at a local landfill. The ERCS mixed drum contents from the base and acid waste groups to neutralize the pH, and stabilized the vat contents by mixing it with kiln dust. The TAT collected 13 samples for an extent of contamination survey around the cement slab area. The survey results can be found in the site assessment report under TDD No. T06-9503-004.

**August 7, 1995, through August 11, 1995,** the ERCS completed crushing and loading empty drums into roll-off containers, cleaning out tanks, and pumping sludge into the soil-waste pile in south yard. The ERCS collected a sample of the soil-waste pile for a waste profile analysis required for disposal. An ERCS disposal contractor was on-site to perform treatment on the caustic material stored in drums. The EPA, TAT, and ERCS prepared the site for demobilization. Equipment was decontaminated and returned to vendors, and the command post trailer was returned. The TAT demobilized from the site on August 10, 1995, and the EPA and ERCS demobilized on August 11, 1995. The EPA, TAT and ERCS awaited the analytical results from the sample collected from the soil-waste pile and completion of the waste profile.

**On September 21, 1995,** the EPA, TAT, and a partial ERCS crew mobilized to the site to load the soil-waste pile into trucks for transportation and disposal to a local landfill. The sample collected from the soil-waste pile passed TCLP, and forty-four truck loads (approximately 792 cubic yards) were taken off-site. The EPA, TAT, and ERCS demobilized from the site.

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## **POTENTIAL CONTAMINATION TO GROUNDWATER**

The area surrounding the TRI Container site is not within a major groundwater basin, and no data is available to determine the depth to groundwater. Records at the Oklahoma Water Resources Board prior to 1985 are limited. Existing data from two nearby monitor wells drilled by Yuba Heat Transfer Co. 1/2 mile west of the site have a total depth of 16 feet and record no groundwater information. Lithologic logs record silty clay and fractured limestone. Water wells drilled to a depth of 75 feet two miles east of the site were dry holes, and abandoned. Lithologic logs record interbedded limestone, shale, and clay. The lithology of surface outcrops on-site is similar to the well log information. Low areas at the southeast corner of the site are clay overlain by limestone. Contamination of the groundwater from the site is unlikely because the interbedded clays at shallow depths would provide an impermeable barrier.

### **E. Resources Committed**

To be completed by the OSC

## **II. EFFECTIVENESS OF REMOVAL ACTIONS**

### **A. Actions Taken by PRP's**

To be completed by the OSC

### **B. Actions Taken by State and Local Agencies**

To be completed by the OSC

### **C. Actions Taken by Federal Agencies and Special Teams**

To be completed by the OSC

### **D. Actions Taken by Contractors, Private Groups, And Volunteers**

The EPA ERCS contractor, Riedel Environmental Services, conducted actions at the site through Delivery Order No. 0035-06-082. ERCS provided a response manager and field clerk to collect subcontractor bids for disposal of waste streams and monitored subcontractor costs and progress. ERCS also provided a foreman and laborers to perform site activities as required.

The EPA TAT contractor, Ecology and Environment, Inc., provided under contract number 68-WO-0037 a project manager to support the OSC during the removal action. The TAT provided site documentation through the use of site files, a logbook and photographs. The TAT organized the EPA site file in accordance with EPA Emergency Response Branch (ERB) specifications, generated POLREPS and prepared a draft On-Scene Coordinator's report.

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## III. DIFFICULTIES ENCOUNTERED

### A. Items That Affected the Response

To be completed by the OSC.

### B. Issues of Intergovernmental Coordination

To be completed by the OSC.

### C. Difficulties Interpreting, Complying With, or Implementing Policies and Regulations

To be completed by the OSC

## IV. RECOMMENDATIONS

### A. Means to Prevent a Recurrence of the Discharge or Release

To be completed by the OSC.

### B. Means to Improve Response Actions

To be completed by the OSC.

### C. Proposals for Changes in Regulations and Response Plans

To be completed by the OSC.

**ATTACHMENT B**

**TRI CONTAINER**  
**CERCLIS # OKD070040589**

Box 1

Ground Water Studies

Daily Drum Totals

Site Maps

E.R.S. Report

Material Safety Data Sheets

ERCS Request for Quotes

Chain of Custodies

Site Safety Plans

Copy of Logbooks (9/29/94 to  
9/21/95)

Drum Inventory/Hazard  
Classification Data Sheets (001  
- 1100)

Box 2

Drum Inventory/Hazard  
Classification Data Sheets  
(1101 - 1656)

Analytical Results (site  
screening, soil pile, tank and  
drums)

Manifests

Photographs (labeled),  
12/1/94 to 8/2/95

Box 3

ERCS Time Sheets

ERCS Invoices

ERCS Miscellaneous

ERCS Subcontractor

ERCS 1900-55 signed originals,  
(9/29/94 - 7/31/95)



**ATTACHMENT C**

# POTENTIAL ENVIRONMENTAL JUSTICE (EJ) INDEX PILOT

Date : 08 Sep 95 10:45:21 Friday  
 Requestor : DJAMES 6E  
 Site Id Number : OKTRICONTAIN  
 Site Name : T.R.I. CONTAINER  
 County : ROGERS  
 State/County FIPS Code : 40131  
 Location : -95 47 30 36 11 20  
 Quality Assurance Resource : 10

## T.R.I. CONTAINER 50 square mile study area

Minority Ranking Value (DVMAV) : 1 Percent Minority = 14.9  
 Economic Ranking Value (DVECO) : 1 Percent Economically Stressed = 23.2  
 Population Ranking Value (PF) : 2 Total Population = 14276

Potential Environmental Justice Index (DVMAV \* DVECO \* PF) = 2

## T.R.I. CONTAINER 1 square mile study area

Minority Ranking Value (DVMAV) : 2 Percent Minority = 19.2  
 Economic Ranking Value (DVECO) : 1 Percent Economically Stressed = 13.2  
 Population Ranking Value (PF) : 1 Total Population = 104

Potential Environmental Justice Index (DVMAV \* DVECO \* PF) = 2

# POTENTIAL ENVIRONMENTAL JUSTICE (EJ) INDEX PILOT

The Potential Environmental Justice Index, or the independent subfactors comprising the index, should be used as a DEMOGRAPHIC CORRELATION VARIABLE for studies conducted by the PROGRAMS. These studies may be used to measure Agency policies or procedures regarding sociological equity for enforcement or permitting activities. The information given in this report does not represent the final analysis of a site in regard to Environmental Justice or RISK. The indices and raw data reported are indicators of Vulnerability for subgroups of people to other stressors.

SEE METHODOLOGY CRITERIA

# POTENTIAL ENVIRONMENTAL JUSTICE (EJ) INDEX PILOT

The Potential Environmental Justice Index, or the independent subfactors comprising the index, should be used as a DEMOGRAPHIC CORRELATION VARIABLE for studies conducted by the PROGRAMS. These studies may be used to measure Agency policies or procedures regarding sociological equity for enforcement or permitting activities. The information given in this report does not represent the final analysis of a site in regard to Environmental Justice or RISK. The indices and raw data reported are indicators of Vulnerability for subgroups of people to other stressors.

## METHODOLOGY CRITERIA

Environmental Justice Indexes are indicators of potential EJ concern. 1990 Census data for a Study Area is evaluated and ranked in relationship to state percentages. Ranking variables are multiplied to produce an index for prioritizing applications. The ranking variables are:

- ~ Minority Status, Degree of Vulnerability (DVMAV),
- ~ Economic Status, Degree of Vulnerability (DVECO),
- ~ and Total Population, Population Factor (PF).

-MINORITY STATUS (DVMAV) - For OK the percent minority is 19%.

-ECONOMIC STATUS (DVECO) - Economically Stressed is defined as Households making less than \$15,000 a year. For OK the percent economically stressed is 32%.

The Methodology for ranking values associated with Degrees of Vulnerability is

Ranking	Criteria
1	<= the State Percentage
2	> the State Percentage but <= 1.33 times the State Percentage
3	> 1.33 times the State Percentage but <= 1.66 times the State Percentage
4	> 1.66 times the State Percentage but <= 1.99 times the State Percentage
5	>= 2 times the State Percentage

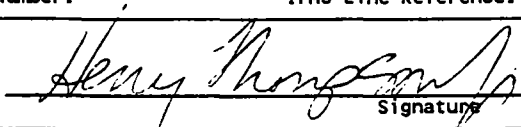
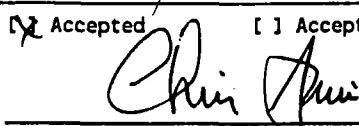
-POPULATION RANKING FACTOR Total Population is ranked using the following criteria.

Ranking	Criteria	(evaluated on a 1 square mile basis)
0	Total Population = 0	
1	Total Population > 0 and < 200	
2	Total Population > 200 and < 1000	
3	Total Population > 1000 and < 5000	
4	Total Population > 5000	

## Reference for Quality Assurance Resources

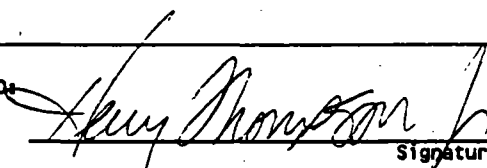
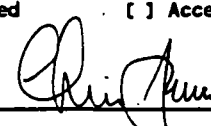
1	Personal Verification	7	AIRS
2	Reconciliation with Quad maps	8	PCS
3	Reported from archived files.	9	GIS Verified
4	TRIS	10	Professional Judgement
5	RCRIS	11	Federal Facility Tracking System
6	CERCLIS	12	Dun & Bradstreet

**ATTACHMENT D**

<b>1A. Cost Center:</b> ZT4061		<b>TAT ZONE II CONTRACT</b> <b>CONTRACT NO. 68-WO-0037</b> <b>TECHNICAL DIRECTION DOCUMENT (TDD)</b> <b>ECOLOGY &amp; ENVIRONMENT, INC.</b>		<b>2. No.:</b> T06-9510-050 FY94-0443  Amendment _____	
<b>1B. Account No.:</b> EOK0419FC					
<b>3A. Priority:</b>  <input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	<b>4A. Estimate of</b> <b>Total Hours:</b> (b) (4)  <b>Total Costs:</b> \$ (b) (4)	<b>5A. EPA Site Name:</b> TRI CONTAINER  <b>5B. SSID No.:</b> 7S <b>Oper. Unit:</b> CATOOSA / ROGERS / AR		<b>7. CERCLIS ID:</b> N/A  <b>8A. Completion Date:</b> 10/20/95	
<b>3B. EPA Contact:</b> Name: Martin Phone: 214 665-6748	<b>4B. Overtime Approved:</b>  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>6. Source of Funds:</b>  <input checked="" type="checkbox"/> CERCLA <input type="checkbox"/> CEPP <input type="checkbox"/> OPA <input type="checkbox"/> Other _____ <input type="checkbox"/> UST <input type="checkbox"/> FEMA		<b>8B. Reference:</b>  <input type="checkbox"/> Yes <input type="checkbox"/> Attached <input checked="" type="checkbox"/> No <input type="checkbox"/> Pick-up	
<b>9. Type of Activity:</b> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <input checked="" type="checkbox"/> OPA   <input type="checkbox"/> SPCC  <input type="checkbox"/> On-Scene Monitoring  <input type="checkbox"/> Spill Clean-up Funded         </div> <div> <input type="checkbox"/> CERCLA   <input type="checkbox"/> Site Assessment  <input checked="" type="checkbox"/> Removal Funded  <input type="checkbox"/> Removal PRP (AO/CO)  <input type="checkbox"/> On-Site Monitoring         </div> <div> <input type="checkbox"/> AS SPECIFIED ABOVE   <input type="checkbox"/> Special Project  <input type="checkbox"/> Analytical Project  <input type="checkbox"/> Corp. Special Project  <input type="checkbox"/> Preparedness  <input type="checkbox"/> UST  <input type="checkbox"/> FEMA         </div> <div> <input type="checkbox"/> Quality Assurance  <input type="checkbox"/> Training  <input type="checkbox"/> Program Management  <input type="checkbox"/> Technical Assistant  <input type="checkbox"/> Information Management         </div> </div>					
<b>10. General Task Description:</b> Provide Removal Funded Activities.				<b>11. Desired Report Form:</b>  <input checked="" type="checkbox"/> Formal Report <input type="checkbox"/> Letter Report <input type="checkbox"/> Formal Briefing <input type="checkbox"/> Other(Specify) _____	
<b>12. Specific Elements:</b> <u>1. Visit site with OSC &amp; RPM to plan activities.</u> <u>2. Maintain site files, logbooks, photodocumentation, draft POLREPs, and other pertinent SOPs.</u> <u>3. Provide technical assistance as needed regarding sampling, analysis, air monitoring, etc.</u> REF:T06-9410-120				<b>13. Interim Deadlines:</b>  _____	
<div style="display: flex; justify-content: space-between;"> <div> <b>Action Sequence Number:</b> _____         </div> <div> <b>IFMS Line Reference:</b> _____         </div> </div>					
<b>14. Authorizing DPO:</b> <div style="text-align: center;">           Signature       </div>				<b>15. Date:</b> 10/02/95	
<b>16. Received by:</b> <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Accepted with Exceptions (Attached) <input type="checkbox"/> Rejected <div style="text-align: center;">           TATL Signature       </div>				<b>17. Date:</b> 10/12/95	

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1A. Cost Center: ZT3061		TAT ZONE II CONTRACT CONTRACT NO. 68-WO-0037 TECHNICAL DIRECTION DOCUMENT (TDD) ECOLOGY & ENVIRONMENT, INC.		2. No.: T06-9410-120 FY94-0443 Amendment <u>C</u>							
1B. Account No.: EOK0419FB											
3A. Priority:  <input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	4A. Estimate of Total Hours: (b) (4) Total Costs: \$ (b) (4)	5A. EPA Site Name: TRI CONTAINER 5B. SSID No.: 7S      5C. City/County/State: CATOOSA / ROGERS / AR		7. CERCLIS ID: N/A 8A. Completion Date: 06/30/95							
3B. EPA Contact: Name: Martin Phone: 214 665-6748	4B. Overtime Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Source of Funds: <input checked="" type="checkbox"/> CERCLA <input type="checkbox"/> CEPP <input type="checkbox"/> OPA <input type="checkbox"/> Other <input type="checkbox"/> UST		8B. References: <input type="checkbox"/> Yes <input type="checkbox"/> Attached <input checked="" type="checkbox"/> No <input type="checkbox"/> Pick-up							
9. Type of Activity: <table style="width:100%; border: none;"> <tr> <td style="width:33%; text-align: center;"><u>OPA</u></td> <td style="width:33%; text-align: center;"><u>CERCLA</u></td> <td style="width:33%; text-align: center;"><u>AS SPECIFIED ABOVE</u></td> </tr> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> SPCC  <input type="checkbox"/> On-Scene Monitoring  <input type="checkbox"/> Spill Clean-up Funded         </td> <td style="vertical-align: top;"> <input type="checkbox"/> Site Assessment  <input checked="" type="checkbox"/> Removal Funded  <input type="checkbox"/> Removal PRP (AO/CO)  <input type="checkbox"/> On-Site Monitoring         </td> <td style="vertical-align: top;"> <input type="checkbox"/> Special Project  <input type="checkbox"/> Analytical Project  <input type="checkbox"/> Corp. Special Project  <input type="checkbox"/> Preparedness  <input type="checkbox"/> UST  <input type="checkbox"/> FEMA         </td> </tr> </table> <div style="margin-top: 10px; font-size: 1.2em;">0453</div>						<u>OPA</u>	<u>CERCLA</u>	<u>AS SPECIFIED ABOVE</u>	<input type="checkbox"/> SPCC <input type="checkbox"/> On-Scene Monitoring <input type="checkbox"/> Spill Clean-up Funded	<input type="checkbox"/> Site Assessment <input checked="" type="checkbox"/> Removal Funded <input type="checkbox"/> Removal PRP (AO/CO) <input type="checkbox"/> On-Site Monitoring	<input type="checkbox"/> Special Project <input type="checkbox"/> Analytical Project <input type="checkbox"/> Corp. Special Project <input type="checkbox"/> Preparedness <input type="checkbox"/> UST <input type="checkbox"/> FEMA
<u>OPA</u>	<u>CERCLA</u>	<u>AS SPECIFIED ABOVE</u>									
<input type="checkbox"/> SPCC <input type="checkbox"/> On-Scene Monitoring <input type="checkbox"/> Spill Clean-up Funded	<input type="checkbox"/> Site Assessment <input checked="" type="checkbox"/> Removal Funded <input type="checkbox"/> Removal PRP (AO/CO) <input type="checkbox"/> On-Site Monitoring	<input type="checkbox"/> Special Project <input type="checkbox"/> Analytical Project <input type="checkbox"/> Corp. Special Project <input type="checkbox"/> Preparedness <input type="checkbox"/> UST <input type="checkbox"/> FEMA									
10. General Task Description: <u>Provide Removal Funded Activities.</u>				11. Desired Report Form: <input checked="" type="checkbox"/> Formal Report <input type="checkbox"/> Letter Report <input type="checkbox"/> Formal Briefing <input type="checkbox"/> Other(Specify)							
12. Specific Elements: <u>This TDD is being amended to extend the completion date in order to complete the removal funded support at the site.</u> <u>Original Elements</u> <u>1. Visit site with OSC &amp; RPM to plan activities.</u> <u>2. Maintain site files, logbooks, photodocumentation, draft POLREPs, and other pertinent SOPs.</u> <u>3. Provide technical assistance as needed regarding sampling, analysis, air monitoring, etc.</u>											
14. Authorizing DPO:  Signature				15. Date: 04/19/95							
16. Received by: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Accepted with Exceptions (Attached) <input type="checkbox"/> Rejected  TATL Signature				17. Date: 4/20/95							

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1A. Cost Center: 2T3061		<b>TAT ZONE II CONTRACT</b> <b>CONTRACT NO. 68-WO-0037</b> <b>TECHNICAL DIRECTION DOCUMENT (TDD)</b> <b>ECOLOGY &amp; ENVIRONMENT, INC.</b>		2. No.: T06-9410-120 FY94-0443  Amendment <u>  B  </u>							
1B. Account No.: EOK0419FB											
3A. Priority:  <input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	4A. Estimate of Total Hours: (b) (4) Total Costs: \$ (b) (4)	5A. EPA Site Name: TRI CONTAINER  5B. SSID No.:    5C. City/County/State: 7S                    CATOOSA                    /ROGERS                    /                    AR		7. CERCLIS ID: N/A  8A. Completion Date: 05/31/95							
3B. EPA Contact: Name: Martin Phone: 214 665-6748	4B. Overtime Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Source of Funds:  <input checked="" type="checkbox"/> CERCLA <input type="checkbox"/> CEPP <input type="checkbox"/> OPA <input type="checkbox"/> Other _____ <input type="checkbox"/> UST		8B. Reference:  <input type="checkbox"/> Yes <input type="checkbox"/> Attached <input checked="" type="checkbox"/> No <input type="checkbox"/> Pick-up							
9. Type of Activity: <table style="width:100%; border: none;"> <tr> <td style="width:33%; text-align: center;"><u>OPA</u></td> <td style="width:33%; text-align: center;"><u>CERCLA</u></td> <td style="width:33%; text-align: center;"><u>AS SPECIFIED ABOVE</u></td> </tr> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> SPCC  <input type="checkbox"/> On-Scene Monitoring  <input type="checkbox"/> Spill Clean-up Funded         </td> <td style="vertical-align: top;"> <input type="checkbox"/> Site Assessment  <input checked="" type="checkbox"/> Removal Funded  <input type="checkbox"/> Removal PRP (AO/CO)  <input type="checkbox"/> On-Site Monitoring         </td> <td style="vertical-align: top;"> <input type="checkbox"/> Special Project  <input type="checkbox"/> Analytical Project  <input type="checkbox"/> Corp. Special Project  <input type="checkbox"/> Preparedness  <input type="checkbox"/> UST  <input type="checkbox"/> FEMA         </td> </tr> </table> <div style="margin-left: 50px; margin-top: 10px;">0453</div>						<u>OPA</u>	<u>CERCLA</u>	<u>AS SPECIFIED ABOVE</u>	<input type="checkbox"/> SPCC <input type="checkbox"/> On-Scene Monitoring <input type="checkbox"/> Spill Clean-up Funded	<input type="checkbox"/> Site Assessment <input checked="" type="checkbox"/> Removal Funded <input type="checkbox"/> Removal PRP (AO/CO) <input type="checkbox"/> On-Site Monitoring	<input type="checkbox"/> Special Project <input type="checkbox"/> Analytical Project <input type="checkbox"/> Corp. Special Project <input type="checkbox"/> Preparedness <input type="checkbox"/> UST <input type="checkbox"/> FEMA
<u>OPA</u>	<u>CERCLA</u>	<u>AS SPECIFIED ABOVE</u>									
<input type="checkbox"/> SPCC <input type="checkbox"/> On-Scene Monitoring <input type="checkbox"/> Spill Clean-up Funded	<input type="checkbox"/> Site Assessment <input checked="" type="checkbox"/> Removal Funded <input type="checkbox"/> Removal PRP (AO/CO) <input type="checkbox"/> On-Site Monitoring	<input type="checkbox"/> Special Project <input type="checkbox"/> Analytical Project <input type="checkbox"/> Corp. Special Project <input type="checkbox"/> Preparedness <input type="checkbox"/> UST <input type="checkbox"/> FEMA									
10. General Task Description: <u>Provide Removal Funded Activities.</u>				11. Desired Report Form:  <input checked="" type="checkbox"/> Formal Report <input type="checkbox"/> Letter Report <input type="checkbox"/> Formal Briefing <input type="checkbox"/> Other(Specify) _____							
12. Specific Elements: <u>This TDD is being amended to extend the completion date in order to complete the removal funded support at the site.</u> <u>Original Elements</u> <u>1. Visit site with OSC &amp; RPM to plan activities.</u> <u>2. Maintain site files, logbooks, photodocumentation, draft POLREPs, and other pertinent SOPs.</u> <u>3. Provide technical assistance as needed regarding sampling, analysis, air monitoring, etc.</u>				13. Interim Deadlines: <u>1. 09/29/94</u>							
14. Authorizing DPO: <u>[Signature]</u> <div style="text-align: center;">Signature</div>				15. Date: <u>2/24/95</u>							
16. Received by: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Accepted with Exceptions (Attached) <input type="checkbox"/> Rejected <u>[Signature]</u> <div style="text-align: center;">TATE Signature</div>				17. Date: <u>2-27-95</u>							

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1A. Cost Center: 2T3061		TAT ZONE II CONTRACT CONTRACT NO. 68-WO-0037 TECHNICAL DIRECTION DOCUMENT (TDD) ECOLOGY & ENVIRONMENT, INC.		2. No.: T06-9410-120 FY94-0443  Amendment <u>    A    </u>										
1B. Account No.: EOK0419FB														
3A. Priority:  <input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	4A. Estimate of  Total Hours: (b) (4)  Total Costs: \$ (b) (4)	5A. EPA Site Name: TRI CONTAINER  5B. SSID No.:    5C. City/County/State: 7S                      CATOOSA                      /ROGERS                      /                      AR		7. CERCLIS ID: N/A  8A. Completion Date: 02/25/95										
3B. EPA Contact:  Name: Martin Phone: 214 665-6748	4B. Overtime Approved:  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Source of Funds:  <input checked="" type="checkbox"/> CERCLA <input type="checkbox"/> CEPP <input type="checkbox"/> OPA <input type="checkbox"/> Other _____ <input type="checkbox"/> UST		8B. Reference:  <input type="checkbox"/> Yes <input type="checkbox"/> Attache: <input checked="" type="checkbox"/> No <input type="checkbox"/> Pick-up										
9. Type of Activity: <table style="width:100%; margin-top: 10px;"> <tr> <td style="width:33%;"><u>OPA</u></td> <td style="width:33%;"><u>CERCLA</u></td> <td style="width:33%;"><u>AS SPECIFIED ABOVE</u></td> </tr> <tr> <td> <input type="checkbox"/> SPCC  <input type="checkbox"/> On-Scene Monitoring  <input type="checkbox"/> Spill Clean-up Funded         </td> <td> <input type="checkbox"/> Site Assessment  <input checked="" type="checkbox"/> Removal Funded  <input type="checkbox"/> Removal PRP (AO/CO)  <input type="checkbox"/> On-Site Monitoring         </td> <td> <input type="checkbox"/> Special Project  <input type="checkbox"/> Analytical Project  <input type="checkbox"/> Corp. Special Project  <input type="checkbox"/> Preparedness  <input type="checkbox"/> UST  <input type="checkbox"/> FEMA         </td> </tr> <tr> <td colspan="3"> <input type="checkbox"/> Quality Assurance  <input type="checkbox"/> Training  <input type="checkbox"/> Program Management  <input type="checkbox"/> Technical Assistant  <input type="checkbox"/> Information Management         </td> </tr> </table> <p style="margin-top: 20px;">Telcode : 0453</p>						<u>OPA</u>	<u>CERCLA</u>	<u>AS SPECIFIED ABOVE</u>	<input type="checkbox"/> SPCC <input type="checkbox"/> On-Scene Monitoring <input type="checkbox"/> Spill Clean-up Funded	<input type="checkbox"/> Site Assessment <input checked="" type="checkbox"/> Removal Funded <input type="checkbox"/> Removal PRP (AO/CO) <input type="checkbox"/> On-Site Monitoring	<input type="checkbox"/> Special Project <input type="checkbox"/> Analytical Project <input type="checkbox"/> Corp. Special Project <input type="checkbox"/> Preparedness <input type="checkbox"/> UST <input type="checkbox"/> FEMA	<input type="checkbox"/> Quality Assurance <input type="checkbox"/> Training <input type="checkbox"/> Program Management <input type="checkbox"/> Technical Assistant <input type="checkbox"/> Information Management		
<u>OPA</u>	<u>CERCLA</u>	<u>AS SPECIFIED ABOVE</u>												
<input type="checkbox"/> SPCC <input type="checkbox"/> On-Scene Monitoring <input type="checkbox"/> Spill Clean-up Funded	<input type="checkbox"/> Site Assessment <input checked="" type="checkbox"/> Removal Funded <input type="checkbox"/> Removal PRP (AO/CO) <input type="checkbox"/> On-Site Monitoring	<input type="checkbox"/> Special Project <input type="checkbox"/> Analytical Project <input type="checkbox"/> Corp. Special Project <input type="checkbox"/> Preparedness <input type="checkbox"/> UST <input type="checkbox"/> FEMA												
<input type="checkbox"/> Quality Assurance <input type="checkbox"/> Training <input type="checkbox"/> Program Management <input type="checkbox"/> Technical Assistant <input type="checkbox"/> Information Management														
10. General Task Description: <u>Provide Removal Funded Activities.</u>				11. Desired Report Form:  <input checked="" type="checkbox"/> Formal Report <input type="checkbox"/> Letter Report <input type="checkbox"/> Formal Briefing <input type="checkbox"/> Other(Specify) _____										
12. Specific Elements:  <u>This TDD is being amended to add hours (the initial TDD was in error) to accurately reflect the hours estimated for this removal funded activity:</u> <u>Original Elements</u> <u>1. Visit site with OSC &amp; RPM to plan activities.</u> <u>2. Maintain site files, logbooks, photodocumentation, draft POLREPs, and other pertinent SOPs.</u> <u>3. Provide technical assistance as needed regarding sampling, analysis, air monitoring, etc.</u>														
14. Authorizing DPO: <u>Henry Thompson</u> <div style="text-align: center;">Signature       </div>				15. Date: <u>12/21/94</u>										
16. Received by: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Accepted with Exceptions (Attached) <input type="checkbox"/> Rejected <u>Chris Jui</u> <div style="text-align: center;">TATL Signature       </div>				17. Date: <u>12/21/94</u>										

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1A. Cost Center: ZT3061		TAT ZONE II CONTRACT CONTRACT NO. 68-WO-0037 TECHNICAL DIRECTION DOCUMENT (TDD) ECOLOGY & ENVIRONMENT, INC.		2. No.: T06-9410-120 FY94-0443	
1B. Account No.: EOK0419FB		Amendment _____			

3A. Priority:  <input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low	4A. Estimate of  Total Hours: (b) (4)  Total Costs: \$ (b) (4)	5A. EPA Site Name: TRI CONTAINER  5B. SSID No.:    5C. City/County/State: 7S                      CATOOSA                      /ROGERS                      /                      AR	7. CERCLIS ID: N/A  8A. Completion Date: 4/25/95 02/25/95
3B. EPA Contact:  Name: Martin Phone: 214 665-6748	4B. Overtime Approved:  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Source of Funds:  <input checked="" type="checkbox"/> CERCLA <input type="checkbox"/> CEPP <input type="checkbox"/> OPA <input type="checkbox"/> Other _____ <input type="checkbox"/> UST	8B. Reference:  <input type="checkbox"/> Yes <input type="checkbox"/> Attached <input checked="" type="checkbox"/> No <input type="checkbox"/> Pick-up

9. Type of Activity:
 

<u>OPA</u>	<u>CERCLA</u>	<u>AS SPECIFIED ABOVE</u>
<input type="checkbox"/> SPCC <input type="checkbox"/> On-Scene Monitoring <input type="checkbox"/> Spill Clean-up Funded	<input type="checkbox"/> Site Assessment <input checked="" type="checkbox"/> Removal Funded <input type="checkbox"/> Removal PRP (AO/CO) <input type="checkbox"/> On-Site Monitoring	<input type="checkbox"/> Special Project <input type="checkbox"/> Analytical Project <input type="checkbox"/> Corp. Special Project <input type="checkbox"/> Preparedness <input type="checkbox"/> UST <input type="checkbox"/> FEMA
		<input type="checkbox"/> Quality Assurance <input type="checkbox"/> Training <input type="checkbox"/> Program Management <input type="checkbox"/> Technical Assistant <input type="checkbox"/> Information Management

10. General Task Description:  
Provide Removal Funded Activities.

11. Desired Report Form:  
☒ Formal Report  
☐ Letter Report  
☐ Formal Briefing  
☐ Other(Specify) \_\_\_\_\_

12. Specific Elements:
 

<u>1. Visit site with OSC &amp; RPM to plan activities.</u>
<u>2. Maintain site files, logbooks, photodocumentation, draft POLREPs, and other pertinent SOPs.</u>
<u>3. Provide technical assistance as needed regarding sampling, analysis, air monitoring, etc.</u>

13. Interim Deadline:  
1. 09/29/94

14. Authorizing DPO: RE: 9409-013  

\_\_\_\_\_  
 Signature

15. Date:  
10/03/94

16. Received by:    ☒ Accepted    ☐ Accepted with Exceptions (Attached)    ☐ Rejected  

\_\_\_\_\_  
 TATL Signature

17. Date:  
10/5/94

NEELEY